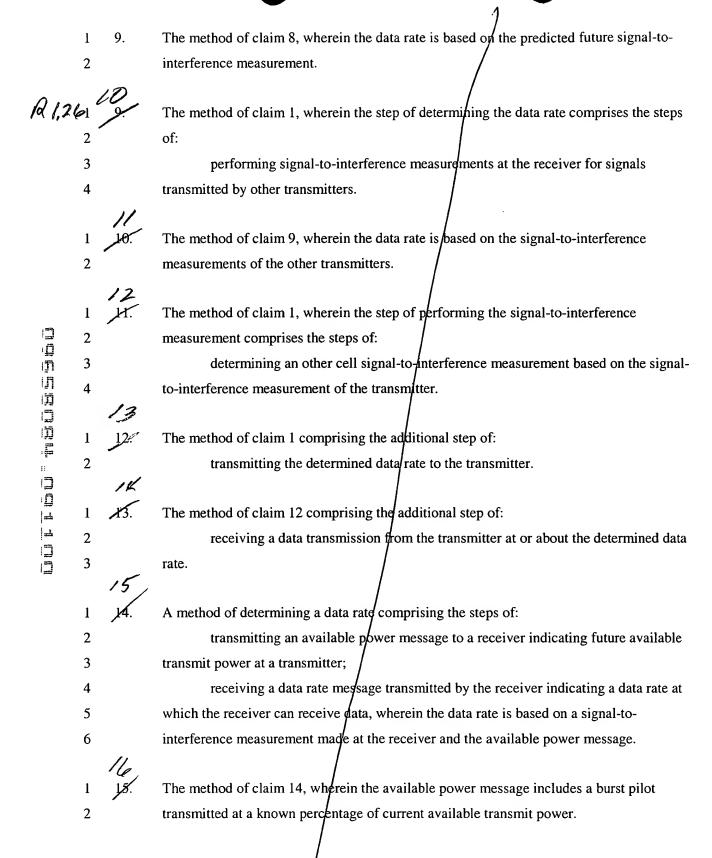We claim:

1. A method of determining a data rate comprising the steps of:

2   receiving an available power message at a receiver indicating future available

3 transmit power at a transmitter;

4   performing a signal-to-interference measurement at the receiver for a signal

5 transmitted by the transmitter; and

6   determining a data rate using the future available transmit power and the

7 measured signal-to-interference ratio.

1   2. The method of claim 1, wherein the available power message includes a pilot-forward

2 link ratio or a burst pilot transmitted using a known percentage of current available

3 transmit power.

1   3. The method of claim 2, wherein the pilot-forward link ratio indicates current pilot

2 transmit power and current forward link power.

1   4. The method of claim 2, wherein the pilot-forward link ratio indicates future pilot transmit

2 power and future forward link power.

1   5. The method of claim 2, wherein the available power message indicates Doppler effects

2 associated with the receiver.

1   6. The method of claim 2, wherein the available power message indicates future data

2 activity of the transmitter.

1   7. The method of claim 2, wherein the available power message indicates future data ·

2 activity of other transmitters.

1   8. The method of claim 7, wherein the step of determining the data rate comprises the steps

2 of:

3   predicting a future signal-to-interference measurement using the future data

4 activity of the other transmitters which may cause interference to data transmissions

5 from the transmitter.

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1 9. The method of claim 8, wherein the data rate is based on the predicted future signal-to-

2 interference measurement.

R 1,261 ~~9.~~ 10. The method of claim 1, wherein the step of determining the data rate comprises the steps

2 of:

3 performing signal-to-interference measurements at the receiver for signals

4 transmitted by other transmitters.

1 ~~10.~~ 11. The method of claim 9, wherein the data rate is based on the signal-to-interference

2 measurements of the other transmitters.

1 ~~11.~~ 12. The method of claim 1, wherein the step of performing the signal-to-interference

2 measurement comprises the steps of:

3 determining an other cell signal-to-interference measurement based on the signal-

4 to-interference measurement of the transmitter.

1 ~~12.~~ 13. The method of claim 1 comprising the additional step of:

2 transmitting the determined data rate to the transmitter.

1 ~~13.~~ 14. The method of claim 12 comprising the additional step of:

2 receiving a data transmission from the transmitter at or about the determined data

3 rate.

1 ~~14.~~ 15. A method of determining a data rate comprising the steps of:

2 transmitting an available power message to a receiver indicating future available

3 transmit power at a transmitter;

4 receiving a data rate message transmitted by the receiver indicating a data rate at

5 which the receiver can receive data, wherein the data rate is based on a signal-to-

6 interference measurement made at the receiver and the available power message.

1 ~~15.~~ 16. The method of claim 14, wherein the available power message includes a burst pilot

2 transmitted at a known percentage of current available transmit power.

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16. The method of claim 14, wherein the available power message includes a pilot-forward link ratio.

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17. The method of claim 14, wherein the available power message is based on power control messages.

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18. The method of claim 14 comprising the additional step of:
     scheduling data transmissions based on the received data rate message.

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19. The method of claim 14 comprising the additional step of:
     adjusting the data rate indicated in the received data rate message.

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20. The method of claim 19 comprising the additional step of:
     transmitting data to the receiver the adjusted data rate.

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21. The method of claim 14 comprising the additional step of:
     transmitting data to the receiver at or about the data rate indicated in the received data rate message.

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22. A method of determining a data rate comprising the steps of:
     performing a signal-to-interference measurement at a receiver for a forward link signal transmitted by a transmitter;
     transmitting the signal-to-interference measurement to the transmitter; and
     receiving an indication of a data rate based on available transmit power at the transmitter and the measured signal-to-interference.

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23. The method of claim 22 comprising the additional step of:
     receiving data transmissions at the indicated data rate.

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24. A method of determining a data rate comprising the steps of:
     receiving signal-to-interference measurements from a plurality of receivers;
     determining data rates based on available transmit power and the received signal-to-interference measurements; and
     to-interference measurements; and

5   transmitting data to one of the plurality of the receivers at one of the determined

6   data rates.

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1   25.   The method of claim 24 comprising the additional step of:

2   scheduling the plurality of receivers for data transmission based on the

3   determined data rates.